

GCE O/L 2010 Answers Paper1

Q1- (2) Q2 -(2) Q3 -(1) Q4- (3) Q5 -(1) Q6 -(2) Q7- (2) Q8 -(4) Q9 -(1) Q10- (4)

Q11- (3) Q12 -(2) Q13 -(2) Q14- (2) Q15 -(3) Q16 -(3) Q17- (3) Q18 -(2) Q19 -(3) Q20- (2)

Q21- (4) Q22 -(3) Q23 -(3) Q24- (2) Q25 -(2) Q26 -(4) Q27- (4) Q28 -(2) Q29 -(4) Q30- (3)

Q31- (3) Q32 -(4) Q33 -(3) Q34- (1) Q35 -(2) Q36 -(4) Q37- (3) Q38 -(1) Q39 -(4) Q40- (4)

GCE OL 2010 ICT Paper II Answers.

Q(1) (i)

- Provide a method to back up copies of information.
- Provide a method to transfer data between two computers/Provide portability
- Storing information that is not required to be accessed frequently
- To copy Information to be given to someone else
- Backup data to for security
- Provide a method to make multiple copies of data.
- Providing method for extended storage

(Any Two)

(ii) a. Simplex

b. Duplex

(Half duplex – Take turns , Duplex – Both are talking)

(iii) Input - purchase price of each item and the total amount mentioned in the Bill

Process - add purchase prices together and compare it with the amount mentioned in the bill.

Decide that it is incorrect.

Output – Inform the cashier that the bill is incorrect

(iv)

- Efficiency /Speed/Convenience of Data Retrieval
- Improved productivity
- Reduced cost /Cost saving /manpower/reduced paper work
- Easy to analyze results/statistical analysis
- Reliability/Accuracy/Reduction of Human error.
- Able to know results from web quickly/24x7 availability or accesibility

(Any two)

(v) Binary ->Decimal (repeated division by 16)

Answer CE

(vi) 2000 Octal

(vii)

(a)

A	B	A'	B'	A.B	(A.B)'	A'+B'
0	0	1	1	0	1	1
0	1	1	0	0	1	1
1	0	0	1	0	1	1
1	1	0	0	1	0	0

(b)

A	B	A'	B'	A+B	(A+B)'	A'.B'
0	0	1	1	0	1	1
0	1	1	0	1	0	0
1	0	0	1	1	0	0
1	1	0	0	1	0	0

Or Single table with all required columns and clear demarcation of the answers for two questions

(viii) Tool Box → create, Place.....

Layers → Draw and edit objects

Key Frame → Animation

Cool Mixer Gradient Fill

(ix)

Begin

- (i) Receiving money and instructions to buy bread/Get Rs. 100.00 and a loaf of bread (inputs)
- (ii) Go to shop
- (iii) Buy loaf of bread
- (iv) Give Rs 100.00
- (v) Get the balance (if available)
- (vi) Go back home
- (vii) Give the loaf of bread and the balance (if any) to mother (outputs)

End.

(x) Problem Definition: A simple document should be prepared here about the objectives of the system, tasks expected from the system, input and output, and other features of the system such as efficiency, interface, security.

Feasibility Study : Before developing the system, a basic study should be made to check whether the company has the required resources to develop the system and what the financial advantages and disadvantages expected from the system.

Q2. (i) Title/Book Name, author, publisher, (ISBN/Accession Number/ Inventory Number/ Reference number), year of publication, Number of copies available. (classification number/Category), Price

- (Only one considered from the items within brackets)

(ii) (Admission number/ID number/ Member number), (ISBN/ Accession Number/ Inventory Number / Reference number) and date borrowed.

- (Only one considered from the items within brackets)

(iii) Data is unprocessed and the Information is processed data.

(a) Example of data : a book's title, author, ISBN or Student data

(b) Example of Information : How many students borrowed books on a day/ a week/a month or in a year ; what are the most frequently borrowed books. List of overdue books.

(iv)

- Can create and maintain an online database for the library
- More efficient and effective for all types of users / stake holders such as library staff, students , principal.
- Less error prone/more reliable
- Takes less physical space
- Easy to take management /summary information efficiently.
- Can keep backup copies of the system in a safer place to improve security of data.
- 24x7 accessibility from anywhere for checking list of books borrowed/reserving books,
- SMS/email reminders to borrowers on return dates,
- Improved physical security through RFID
- Convenience /Efficiency of borrowing the automated Self serviced borrowing with barcodes or RFID

Q3. (i) =C4+C5+C6+C7 OR +C4+C5+C6+C7

(ii) =D4+D5+D6+D7 OR +D4+D5+D6+D7

(iii) =sum(F4:F7) OR =sum(F4..F7) OR + sum(F4:F7)

(iv) =average(C4:F4) OR =average (C4..F4) OR =average(C4..F4) OR =sum(C4:F4)/count(C4:F4) or used + instead of =

(v) Line chart/(Bar, Cylinder,cone) /columnchart

Q4. (i) (a) No (b) yes (c) no of rounds (d) 10 (e) yes (f) No

(ii)

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Begin
Get/Input/Read N
I=0
Sum=0
Max=0
Min =100
While i<N
Get/Input M
I=i+1
Sum=Sum+M
If M<Min then Min=M endif
If M<Max then Max=M endif
Endwhile
Average =Sum/N
Print/Display Average,Max,Min
End
```

- Q5. (i) Hacking, Malware or Malicious software (virus/Trojan horses
(ii) Installing (Virus Guard) or updating Virus Guard software, Operating System security patches
Installing Firewall
(iii) Using correct seating position to avoid back ache, using the correct screen position to avoid neck ache, positioning the screen to avoid glare from sun to avoid eye strain, avoiding the use of computer at a stretch to avoid repetitive Stress Injury , exercising to avoid Repetitive Stress Injury , avoid use of loud sound using speakers over long period of time.
(iv) No. Piracy is illegal

Q6.

- (i) Explain the possible use of magnetic resonance imaging , Computer Aided Tomography , Electrocardiography (ECG), Electroencephalogram (EEG) , Telemedicine, surgical Simulation, e-channeling
(ii) Using electronic content in teaching and learning, Use of Learning Management System, Conducting online exams/assessments, Use of computer aided learning systems, Use of Web based training, use of TV programmes, using books, video conferencing in teaching and learning, use of interactive white board in teaching and learning
(iii) Computer controlled farming
-Computer controlled green house
-Weather prediction using Information systems
-Pest control using Information systems
-Diary produces and food processing using information
-eCommerce application in agriculture
-Computer based training of farmers
(iv) Cost and affordability, Internet accessibility, English language literacy, Computer literacy, negative attitude towards the use of internet,

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